

XVth Quark Confinement and the Hadron Spectrum



Contribution ID: 112

Type: **Oral**

Dipion transitions in heavy quarkonium high excitations and heavy quarkonium hybrids

Wednesday 21 August 2024 14:30 (30 minutes)

We present results for dipion transitions between heavy quarkonium states of large principal quantum number for which the multipole expansion does not hold. We combine the QCD effective string theory with the Chiral Lagrangian in order to get the appropriate vertexes. We extend the results to transitions for which the initial state is a heavy quarkonium hybrid. We observe that the dipion spectrum is qualitatively different if the initial state is a hybrid or a quarkonium.

Authors: SOTO, Joan (Universitat de Barcelona); SOTO, Joan

Co-author: TOMÀS VALLS, Sandra (Universitat de Barcelona)

Presenter: SOTO, Joan

Session Classification: Heavy Quarks

Track Classification: C: Heavy Quarks